

# **Sugar Branch (1029 & 1030)**

## **Use Attainability Analysis**



**Boone County Regional Sewer District  
1314 North 7<sup>th</sup> Street  
Columbia, MO 65201-3902**

**Prepared by  
Barr Engineering Company  
July 2005**

***Sugar Branch (1029 & 1030)***

***Use Attainability Analysis***

***Boone County Regional Sewer District***

***1314 North 7<sup>th</sup> Street***

***Columbia, MO 65201-3902***

***July 2005***



Barr Engineering Company  
3236 Emerald Lane  
Jefferson City, MO 65109  
Phone: (573) 636-5331  
Fax: (573) 636-5323

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet A - Water Body Identification**

RECEIVED  
JUL 13 2005  
WATER PROTECTION PROGRAM

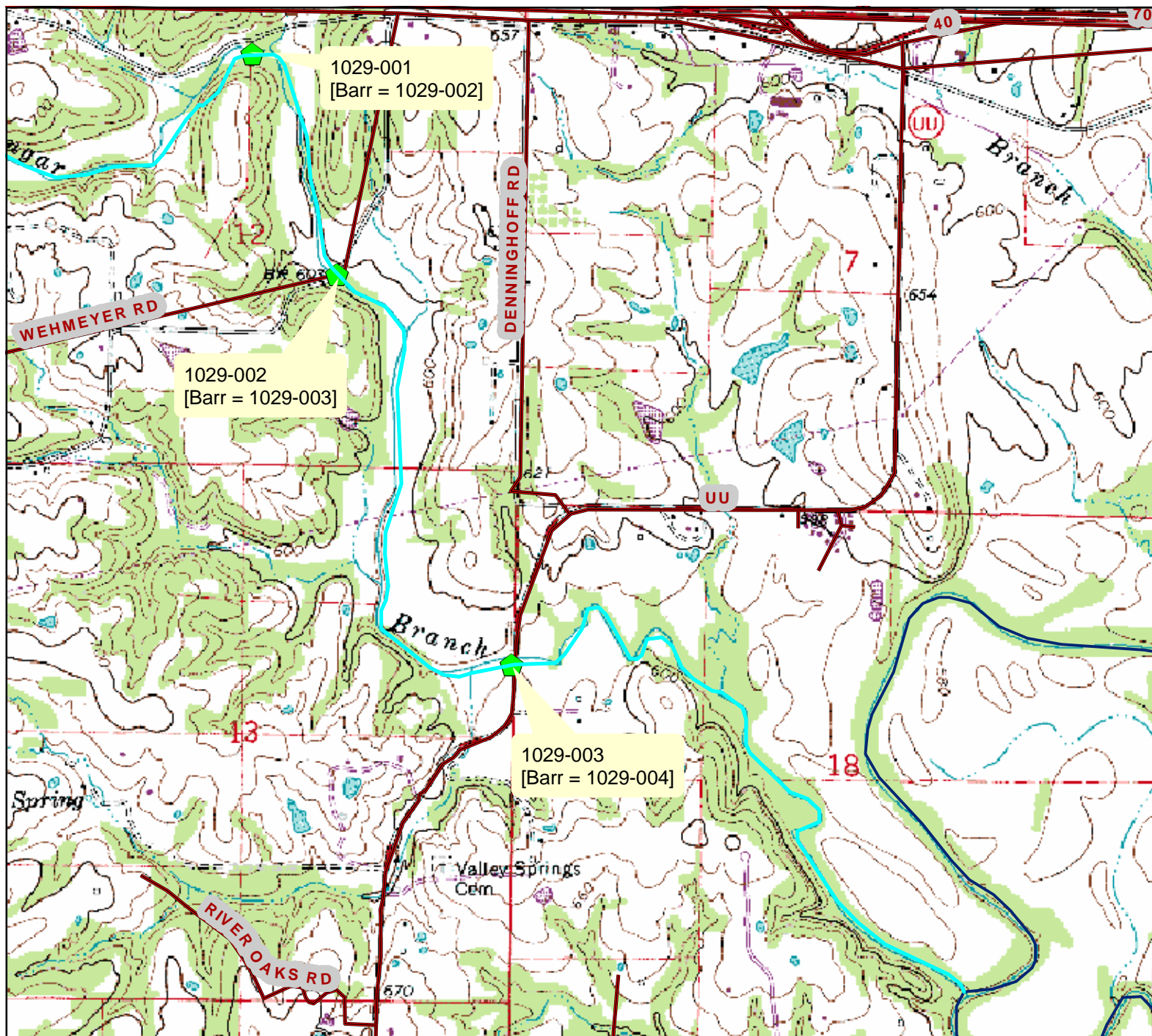
Water Body Name (from USGS 7.5' quad): Sugar Branch
8-digit HUC: 10300102
Missouri WBID #: 1029 and 1030
County: Boone
Upstream Legal Description: Interstate Highway 70 Crossing (NE 1/4 Section 10, T48N, R14W)
Downstream Legal Description: Mouth (in SE 1/4 Section 18, T48N, R13W)
Upstream Coordinates: UTM (Z15N) 545250E; 4313873N
Downstream Coordinates: UTM (Z15N) 549896E; 4310607N
Discharger Facility Name(s): Boone County Regional Sewer District-Rollingwood Subdivision Plt 2, Permit # MO0038806 Boone County Regional Sewer District-Trails West Subdivision, Permit # MO0092002 Total Restoration Company, Permit # MO0124711
Discharger Permit Number(s): See Above.
Number of Sites Evaluated: 4
Name of Surveyor and Telephone Number: Alan Fandrey (573-638-5013)
Organization: Barr Engineering Company
Position: Civil Engineer

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.




Signed: Alan Fandrey Date: June 29, 2005

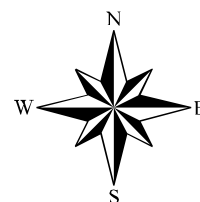
# Sugar Branch (P) #1029 Boone County

## HUC 8 = 10300102



### Legend

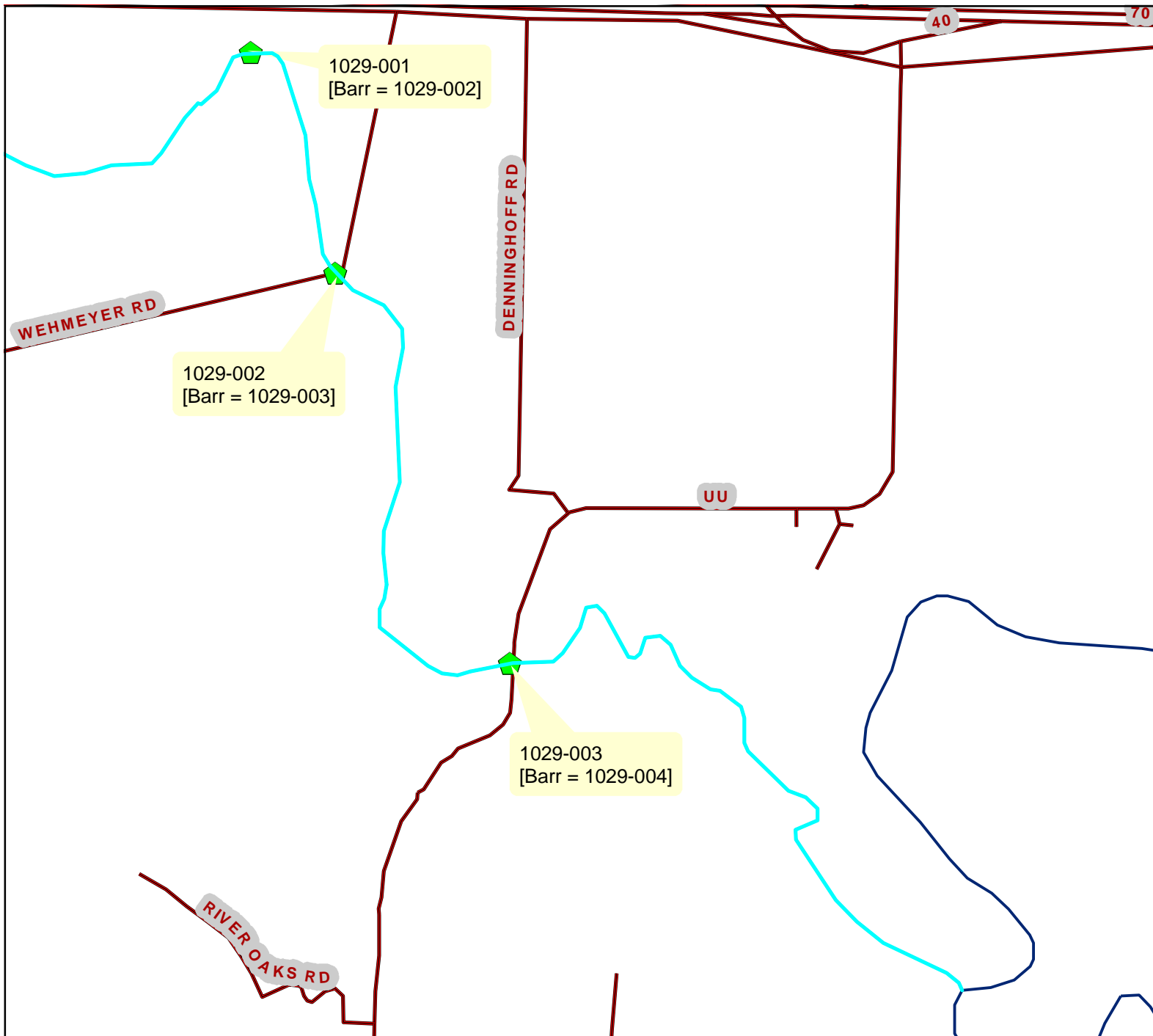
-  Roads
-  Classified Waterbodies
-  Counties






0 0.35 0.7 1.4 Miles

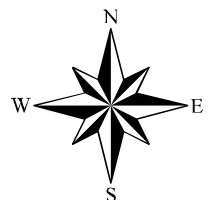
# Sugar Branch (P) #1029 Boone County

## HUC 8 = 10300102



### Legend

-  Roads
-  Classified Waterbodies
-  Counties



0 0.35 0.7 1.4 Miles

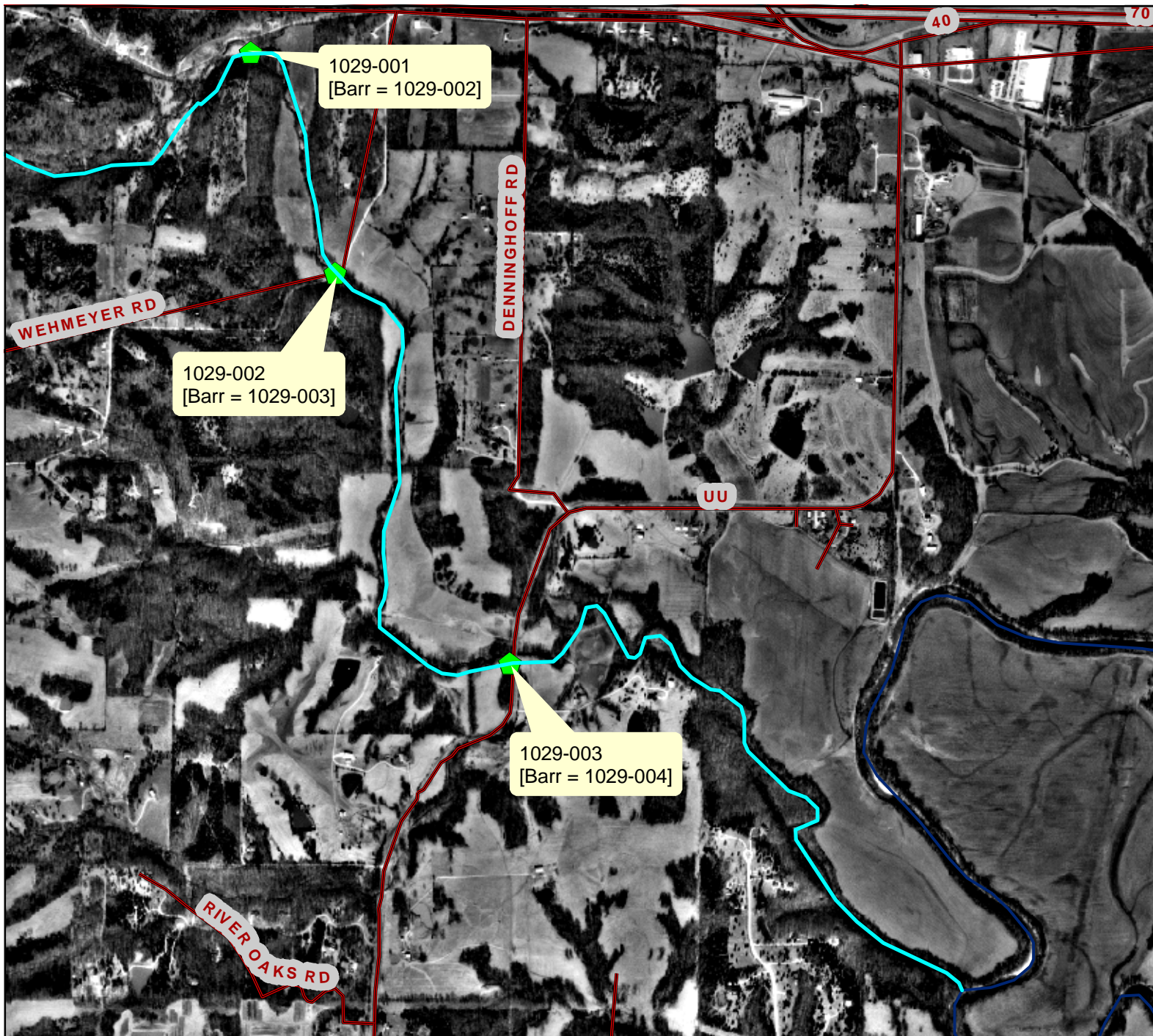


A scale bar with segments corresponding to the distances 0, 0.35, 0.7, and 1.4 miles.






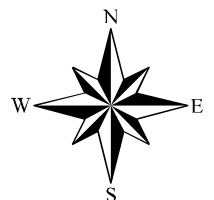
# Sugar Branch (P) #1029 Boone County

## HUC 8 = 10300102



### Legend

-  Roads
-  Classified Waterbodies
-  Counties



0 0.35 0.7 1.4 Miles

## **Field Data Sheets for Recreational Use Stream Surveys**

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: 1029-001		Site Location Description: Sugar Branch at crossing of South I-70 Outer road (in NE ¼ Section 10, T48N, R14W; BID 26 – Boone County)
Site GPS Coordinates: 545250E; 4313873N		
Date & Time: 05/27/05 - 8:20 a.m.		Facility Name: See Table 2
Personnel: Tim J. Fandrey		Permit Number: See Table 2
Current Weather Conditions: Clear - 70s		Weather Conditions for Past 7 days: Last rain on May 22
Photo Ids: Upstream: 1029-001US	Downstream: 1029-001DS	Other:

#### **Uses Observed\*:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

#### **Evidence of Human Use\*:**

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID #1029-001:

### Stream Morphology:

#### Upstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 0.5	Length (ft): 3.0	Avg. Depth (ft): 0.1	Max. Depth (ft): 0.1
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): < 0.1		

#### Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 0.7	Length (ft): 2.0	Avg. Depth (ft): 0.1	Max. Depth (ft): 0.1
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): Same as above		

#### Substrate\*: (These values should add up to 100%.)

% Cobble	60% Gravel	10% Sand	% Silt	30% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

**Comments:** Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed: Alan Fung Date: May 27, 2005

Organization: Barr Engineering Company Position: Engineer





Photo ID 1029-001US: Upstream (Sugar Branch)



Photo ID 1029-001DS: Downstream (Sugar Branch)

## **Field Data Sheets for Recreational Use Stream Surveys**

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: 1029-002		Site Location Description: Sugar Branch adjacent to road in North ½ Section 12; T48N; R14W; BID 28 – Boone County
Site GPS Coordinates: 547812E; 4313739N		
Date & Time: 06/26/05 - 3 p.m.		Facility Name: See Table 2
Personnel: Alan J. Fandrey		Permit Number: See Table 2
Current Weather Conditions: Clear - 90s		Weather Conditions for Past 7 days: Last rain on June 13
Photo Ids: Upstream: 1029-002US	Downstream: 1029-002DS	Other:

#### **Uses Observed\*:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

#### **Evidence of Human Use\*:**

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two – WBID #1029-002:

### Stream Morphology:

#### Upstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 3	Length (ft): 5	Avg. Depth (ft): < 0.1	Max. Depth (ft): 0.1
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): 8	Length (ft): 30	Avg. Depth (ft): 1.5	Max. Depth (ft): 2.5
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.1		

#### Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): 10	Length (ft): 50	Avg. Depth (ft): 0.8	Max. Depth (ft): 1.1
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.1		

#### Substrate\*: (These values should add up to 100%.)

30% Cobble	50% Gravel	20% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan Farley Date: June 27, 2005

Organization: Barr Engineering Company Position: Engineer





Photo ID 1029-002US: Upstream (Sugar Branch)



Photo ID 1029-002DS: Downstream (Sugar Branch)

## **Field Data Sheets for Recreational Use Stream Surveys**

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: 1029-003		Site Location Description: Sugar Branch at bridge in South ½ Section 12, T48N, R14W; BID 27 – Boone County	
Site GPS Coordinates: 548005E; 4313010N			
Date & Time: 05/27/05 - 8:50 a.m.		Facility Name: See Table 2	
Personnel: Tim J. Fandrey		Permit Number: See Table 2	
Current Weather Conditions: Clear - 70s		Weather Conditions for Past 7 days: Last rain on May 22	
Photo Ids: Upstream: 1029-003US	Downstream: 1029-003DS	Other:	

#### **Uses Observed\*:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input checked="" type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

#### **Evidence of Human Use\*:**

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

Page Two – WBID #1029-003:

#### Stream Morphology:

##### Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): 2.0	Length (ft): 8	Avg. Depth (ft): 0.8	Max. Depth (ft): 1.1
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.2		

##### Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 2.0	Length (ft): 2.0	Avg. Depth (ft): 0.15	Max. Depth (ft): 0.2
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.2		

#### Substrate\*: (These values should add up to 100%.)

10% Cobble	80% Gravel	10% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

**Comments:** Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan Tawf Date: May 27, 2005  
Organization: Barr Engineering Company Position: Engineer



Photo ID 1029-003US: Upstream (Sugar Branch)



Photo ID 1029-003DS: Downstream (Sugar Branch)

## **Field Data Sheets for Recreational Use Stream Surveys**

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: 1029-004		Site Location Description: Sugar Branch at Highway UU Bridge (on east line Section 13, T48N, R14W); BID 31 – Boone County
Site GPS Coordinates: 548525E; 4311860N		
Date & Time: 05/27/05 - 1:30 p.m.		Facility Name: See Table 2
Personnel: Tim J. Fandrey		Permit Number: See Table 2
Current Weather Conditions: Partly Cloudy - 70s		Weather Conditions for Past 7 days: Last rain on May 22
Photo Ids: Upstream: 1029-004US	Downstream: 1029-004DS	Other:

#### **Uses Observed\*:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

#### **Evidence of Human Use\*:**

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

Page Two – WBID #1029-004:

#### Stream Morphology:

##### Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): 17.0	Length (ft): 30.0	Avg. Depth (ft): 0.2	Max. Depth (ft): 0.4
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.3	

##### Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): 1.5	Length (ft): 11.0	Avg. Depth (ft): 0.2	Max. Depth (ft): 0.3
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): 0.3	

#### Substrate\*: (These values should add up to 100%.)

% Cobble	50% Gravel	50% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None

#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed: Alan Paul Date: May 27, 2005

Organization: Barr Engineering Company Position: Engineer





Photo ID 1029-004US: Upstream (Sugar Branch)



Photo ID 1029-004DS: Downstream (Sugar Branch)